

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,016 05/10/2006		Vesa Torvinen	P18450US1	1254
27045 ERICSSON IN	7590 09/04/200	8	EXAM	IINER
6300 LEGACY DRIVE BENOIT, ESTHER			ESTHER	
M/S EVR 1-C-11 PLANO, TX 75024 ART UNIT PAPER NUMBER			PAPER NUMBER	
1221.0, 111	2021		2142	
			MAIL DATE	DELIVERY MODE
			09/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/595,016	TORVINEN ET AL.		
Examiner	Art Unit		
ESTHER BENOIT	2142		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

If ISC period for risp) is specified above, disc maintained period will apply and will cope SIX (6) MONTIS from the maintain date of this communication is fallowed by the period of the respiration of the maintained period will be also also described period for risp with the set of respiration period will be also MANOCHED (35 U.S.C. § 133). Any reply received by the Office later than three months after the maining date of this communication, even if timely filled, may reduce any camed pattern term adjustment. See 37 CFR 174(b).
Status
1) Responsive to communication(s) filed on 17 April 2008.
2a) This action is FINAL . 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>1-31</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.

Application Papers

0/ opening and o =
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stag
	application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s

	Notice of References Cited (P10-892)
2)	Notice of Draftsperson's Patent Drawing Review (PTO-948)

9) The specification is objected to by the Examiner

 Information Disclosure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date 12/16/2005.

a) All b) Some * c) None of:

4)	Interview Summary (PTO-413
	Paper No(s)/Mail Date.

5) Notice of Informal Patent Application 6) Other:

Art Unit: 2142

DETAILED ACTION

Response to Amendment

 Claims 1-31 are pending in this application. Claims 15 and 18 have been amended. Claims 22-32 have been amended to be re-numbered as claims 21-31.

Response to Arguments

2. Applicant's arguments, see Remarks, filed 04/17/2008, with respect to the rejection(s) of claim(s) 1 under 35 USC 102(b), and claim(s) 15 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Reiche (6,092,196) and Niemi et al. (RFC 3310, HTTP Digest Authentication Using AKA, 2002)

Information Disclosure Statement

3. The information disclosure statement filed 12/16/2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Application/Control Number: 10/595,016 Page 3

Art Unit: 2142

Claim Objections

Claims 23 and 27 are objected to because of the following informalities: Claims
 and 27 are claims that are dependent from themselves. Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.

 Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over of Niemi et al. (RFC 3310, HTTP Digest Authentication Using AKA), in view of Reiche (6,092,196)

With respect to claim 1, Niemi discloses at the authentication node or the remote server, generating a Hypertext Transfer Protocol (HTTP) Digest challenge using an algorithm capable of generating end-user passwords (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...") and at the UE, generating a password based on the HTTP Digest challenge (pg. 7, paragraph 2, "The resulting...")

Art Unit: 2142

Niemi does not disclose sending a request for access from the UE to the remote server; creating a temporary identity for the UE; sending to an authentication node in the UE's home network details of the request for access; the challenge includes details of the temporary identity of the UE; the password being associated with the identity of the remote server and the identity of the UE; and storing the password and the temporary identity of the UE at the UE.

However, Reiche discloses sending a request for access from the UE to the remote server; (Col. 5, lines 15-17) creating a temporary identity for the UE; (Col. 5, lines 17-25) sending to an authentication node in the UE's home network details of the request for access; (Col. 6, lines 52-56) the challenge includes details of the temporary identity of the UE; (Col. 5, lines 17-25) the password being associated with the identity of the remote server and the identity of the UE; (Col. 5, lines 17-25) and storing the password and the temporary identity of the UE at the UE (Col. 5, lines 25-28)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to generate an HTTP Digest challenge based on a request sent to a remote server and creating a temporary identity for the user, in order to allow the user secure access to the server and remember the identity of the user for future remote server access.

With respect to claim 2, Niemi discloses the method, wherein the algorithm capable of generating end-user passwords is HTTP Digest Authentication and Key

Art Unit: 2142

Agreement (AKA) (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...")

With respect to claim 3, Niemi does not disclose the method, further comprising sending the identity of the remote server to the authentication node, wherein the step of generating the HTTP Digest challenge includes using the identity of the remote server, and wherein the identity of the remote server is stored at the UE. However, Reiche discloses sending the identity of the remote server to the authentication node, wherein the step of generating the HTTP Digest challenge includes using the identity of the remote server and wherein the identity of the remote server is stored at the UE (Col. 5, lines 17-25)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to use the identity of the remote server stored on the end user to generate the HTTP Digest Challenge, in order to know which remote server the client is communicating with.

With respect to claim 4, Niemi does not disclose the temporary identity of the UE is created at the remote server. However, Reiche discloses the temporary identity of the UE is created at the remote server (Col. 5, lines 17-25)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to use the identity of the remote server stored on the end user to generate the

Art Unit: 2142

HTTP Digest Challenge, in order to know which remote server the client is communicating with.

With respect to claim 5, Niemi does not disclose the method, wherein the step of sending details of the request for access to the authentication node includes redirecting the request for access to the authentication node. However, Reiche discloses sending details of the request for access to the authentication node includes redirecting the request for access to the authentication node (Col. 6, lines 52-56)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to include redirecting the request for access to the authentication node if the client is being authenticated at the authentication node.

With respect to claim 6, the claim is rejected for the same reason as Claim 5 above. In addition, Reiche discloses the HTTP Digest challenge is generated at the authentication node and sent from the authentication node directly to the UE (Col. 5, lines 17-25)

With respect to claim 7, Niemi discloses the method, wherein the password is stored at the authentication (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...")

With respect to claim 8, the claim is rejected for the same reason as Claim 5 above. In addition, Reiche discloses authenticating the UE at the authentication node and redirecting the request for access from the authentication node to the remote server after the password has been generated (Col. 6, lines 52-56)

Art Unit: 2142

With respect to claim 9, Niemi does not disclose the method, wherein the step of sending details of the request for access to the authentication node includes the remote server contacting the authentication node directly,. However, Reiche discloses sending details of the request for access to the authentication node includes the remote server contacting the authentication node directly (Col. 6, lines 52-56)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to have the remote server contact the authentication node directly since the password is stored at the authentication node. This allows a more appropriate way for the remote server to contact the authentication node directly and authenticate the client.

With respect to claim 10, Niemi discloses the HTTP Digest challenge is generated at the authentication node and sent from the authentication node to the remote server (pq. 7, paragraph 4, "If the server..", lines 1-4)

With respect to claim 11, Niemi discloses the method, wherein the HTTP Digest challenge is generated at the remote server (pg. 7, paragraph 4, "If the server..", lines 1-4)

With respect to claim 12, Niemi discloses the method, further comprising sending the HTTP digest challenge from the remote server to the UE (pg. 7, paragraph 5, "When a client...", line 1)

With respect to claim 13, Niemi discloses a HTTP Digest AKA challenge
password in the information sent from the authentication node to the remote server and

Art Unit: 2142

authenticating the UE at the remote server (pg. 7, paragraph 5, "When a client.."; pg. 8, paragraph 1, "The AUTN token..")

With respect to claim 14, Niemi discloses authenticating the UE at the authentication node and returning an authentication result to the remote server (pg. 5, paragraph 5, "Using the shared secret...", lines 2-5; paragraph 6, "The authentication response")

With respect to claim 15, Niemi discloses generating a Hypertext Transfer

Protocol (HTTP) Digest challenge including details of the identity of the remote server
and sending the challenge to the UE; (pg. 6, paragraph 2, "If the server...", and pg. 7,
paragraph 1, "When a client...") Niemi does not disclose discloses generating and
storing a password; sending a request for access from the UE to the remote server; and
sending an authentication response including the temporary identity of the UE and a
proof of possession of the password to the remote server at the remote server.

However, Reiche discloses generating and storing a password; sending a request for
access from the UE to the remote server; (Col. 5, lines 15-25) and sending an
authentication response including the temporary identity of the UE and a proof of
possession of the password to the remote server at the remote server (Col. 5, lines 3242).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to generate an HTTP Digest challenge based on a request sent to a remote

Art Unit: 2142

server and creating a temporary identity for the user, in order to allow the user secure access to the server and remember the identity of the user for future remote server access.

With respect to claim 16, Niemi discloses sending an authentication request from the remote server to the authentication node, (pg. 5, paragraph 3, "The server creates..") sending the password from the authentication node to the remote server, (pg. 5, paragraph 5, "Using the shared secret...", lines 2-5; paragraph 6, "The authentication response...") and authenticating the UE at the remote server (pg. 7, paragraph 4, "If the serer receives...", lines 1-2)

With respect to claim 17, Niemi discloses sending an authentication request from the remote server to the authentication node, (pg. 5, paragraph 3, "The server creates..") authenticating the UE at the authentication node, (pg. 5, paragraph 5, "Using the shared..", lines 2-5) and sending confirmation of authentication from the authentication node to the remote server (pg. 5, paragraph 6, "The authentication response..")

With respect to claim 18, Niemi discloses at the authentication node or the remote server, generating a Hypertext Transfer Protocol (HTTP) Digest challenge using an algorithm capable of generating end-user passwords (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...") and at the UE, generating a password based on the HTTP Digest challenge (pg. 7, paragraph 2, "The resulting...")

Art Unit: 2142

Niemi does not disclose sending a request for access from the UE to the remote server; creating a temporary identity for the UE; sending to an authentication node in the UE's home network details of the request for access; the challenge includes details of the temporary identity of the UE; the password being associated with the identity of the remote server and the identity of the UE; and storing the password and the temporary identity of the UE at the UE.

However, Reiche discloses sending a request for access from the UE to the remote server; (Col. 5, lines 15-17) creating a temporary identity for the UE; (Col. 5, lines 17-25) sending to an authentication node in the UE's home network details of the request for access; (Col. 6, lines 52-56) the challenge includes details of the temporary identity of the UE; (Col. 5, lines 17-25) the password being associated with the identity of the remote server and the identity of the UE; (Col. 5, lines 17-25) and storing the password and the temporary identity of the UE at the UE (Col. 5, lines 25-28)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to generate an HTTP Digest challenge based on a request sent to a remote server and creating a temporary identity for the user, in order to allow the user secure access to the server and remember the identity of the user for future remote server access.

With respect to claim 19, Niemi discloses the method, wherein the algorithm capable of generating end-user passwords is HTTP Digest Authentication and Key

Art Unit: 2142

Agreement (AKA) (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...")

With respect to claim 20, Niemi does not disclose the method, further comprising sending the identity of the remote server to the authentication node, wherein the step of generating the HTTP Digest challenge includes using the identity of the remote server, and wherein the identity of the remote server is stored at the UE. However, Reiche discloses sending the identity of the remote server to the authentication node, wherein the step of generating the HTTP Digest challenge includes using the identity of the remote server and wherein the identity of the remote server is stored at the UE (Col. 5, lines 17-25)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to use the identity of the remote server stored on the end user to generate the HTTP Digest Challenge, in order to know which remote server the client is communicating with.

With respect to claim 21, Niemi does not disclose the temporary identity of the UE is created at the remote server. However, Reiche discloses the temporary identity of the UE is created at the remote server (Col. 5, lines 17-25)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to use the identity of the remote server stored on the end user to generate the

Art Unit: 2142

HTTP Digest Challenge, in order to know which remote server the client is communicating with.

With respect to claim 22, Niemi does not disclose the method, wherein the step of sending details of the request for access to the authentication node includes redirecting the request for access to the authentication node. However, Reiche discloses sending details of the request for access to the authentication node includes redirecting the request for access to the authentication node (Col. 6, lines 52-56)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to include redirecting the request for access to the authentication node if the client is being authenticated at the authentication node.

With respect to claim 23, the claim is rejected for the same reason as Claim 22 above. In addition, Reiche discloses the HTTP Digest challenge is generated at the authentication node and sent from the authentication node directly to the UE (Col. 5, lines 17-25)

With respect to claim 24, Niemi discloses the method, wherein the password is stored at the authentication (pg. 6, paragraph 2, "If the server...", and pg. 7, paragraph 1, "When a client...")

With respect to claim 25, the claim is rejected for the same reason as Claim 23 above. In addition, Reiche discloses authenticating the UE at the authentication node and redirecting the request for access from the authentication node to the remote server after the password has been generated (Col. 6, lines 52-56)

Art Unit: 2142

With respect to claim 26, Niemi does not disclose the method, wherein the step of sending details of the request for access to the authentication node includes the remote server contacting the authentication node directly. However, Reiche discloses sending details of the request for access to the authentication node includes the remote server contacting the authentication node directly (Col. 6, lines 52-56)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Niemi with the teachings of Reiche to have the remote server contact the authentication node directly since the password is stored at the authentication node. This allows a more appropriate way for the remote server to contact the authentication node directly and authenticate the client.

With respect to claim 27, Niemi discloses the HTTP Digest challenge is generated at the authentication node and sent from the authentication node to the remote server (pq. 7, paragraph 4, "If the server..", lines 1-4)

With respect to claim 28, Niemi discloses the method, wherein the HTTP Digest challenge is generated at the remote server (pg. 7, paragraph 4, "If the server..", lines 1-4)

With respect to claim 29, Niemi discloses the method, further comprising sending the HTTP digest challenge from the remote server to the UE (pg. 7, paragraph 5, "When a client...". line 1)

With respect to claim 30, Niemi discloses a HTTP Digest AKA challenge password in the information sent from the authentication node to the remote server and Art Unit: 2142

authenticating the UE at the remote server (pg. 7, paragraph 5, "When a client.."; pg. 8, paragraph 1, "The AUTN token..")

With respect to claim 31, Niemi discloses authenticating the UE at the authentication node and returning an authentication result to the remote server (pg. 5, paragraph 5, "Using the shared secret..", lines 2-5; paragraph 6, "The authentication response")

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esther Benoit whose telephone number is 571-270-3807. The examiner can normally be reached on Monday through Friday between 7:30 a.m and 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/595,016 Page 15

Art Unit: 2142

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

E.B.

August 27, 2008

/Andrew Caldwell/

Supervisory Patent Examiner, Art Unit 2142